Contracts to Be Let

Bids received until Feb. 23, 1915.

Columbia River Interstate Bridge

Portland, Oregon.

Sealed proposals will be received by the Columbia River Interstate Bridge Commission on February 23, 1915, at two P.M., in room 201 of Multnomah County Court House, Portland, Oregon, for the furnishing of all materials and performing of all work for the construction of the Columbia River Interstate Bridge and Approaches. The bridge and approaches are for highway and street car traffic and comprise about 5000 linear feet of steel structure and 12,000 linear feet of embankment; including about 9500 tons of steel, about 1,000,000 cubic yards of embankment, and about 29,000 cubic yards of concrete. Contracts will be let under several sections to one or more bidders for a part or for the whole of the work.

Proposals and bids shall be subject to all requirements of the specifications, plans, contract, contractors' bonds, and proposal forms; and shall be made upon blank forms provided in the specifications. The bidder to whom a contract may be awarded shall promptly execute a formal contract and shall furnish a penal bond with good and sufficient sureties satisfactory to the Commissioners in an amount equal to the total contract price, for the faithful performance of said contract and all provisions thereof.

To all bids there shall be attached a certified check of the bidder, certified to by a responsible bank, made payable to Wm. N. Marshall, Secretary, of an amount of ten per cent. of the total bidding price, and the bidder who has a contract awarded to him and who fails promptly and properly to execute said contract, or bond, shall forfeit said check. The said check shall be taken and considered as liquidated damages and not a penalty for failure of such bidder to execute said contract and bond. Upon the execution of said contract and bond by the successful bidder, the said check shall be returned to him. The checks of unsuccessful bidders shall be returned to them after the contract and bond with the successful bidder are duly executed.

The contract will be awarded to the lowest responsible bidder, but the Commission reserves the right to reject any and all bids. Multnomah County provides five-sevenths and Clarke County two-sevenths of the funds for payments.

Plans and specifications are on file in the office of the County Clerk of Multnomah County, Oregon, in the office of the County Clerk of Clarke County, Washington, and in the office of State Commissioner of Highways at Salem, Oregon. Copies of the plans and specifications may be secured from the Secretary of the Interstate Bridge Commission at Vancouver, Washington, or from the Consulting Engineers, Waddell & Harrington, at Kansas City, Missouri, by depositing twenty-five dollars. The amount of the deposit will be refunded upon the return of the plans in good order accompanied by a bid; or one-half the amount of the deposit will be refunded upon the return of the plans in good order without a bid.

WM. N. MARSHALL, Secretary.

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 5, 1915.—Plans and specifications are now approaching completion for a central heating, lighting and power plant, to be erected in this city under the direction of this office. These plans and specifications will be ready for delivery on or after January 15. Bids may be submitted for the entire work or for any one of the following sections: Power plant building complete, with steel stacks; boilers; generating apparatus; pumping equipment; condensers; coal and ash handling apparatus; steam and water piping; switching gear; tunnels; substation apparatus; etc. Prospective bidders should immediately submit to this office applications for plans and specifications, stating the portions of the work upon which they desire to bid. If it appears that the applicant is in a position to bid on all of the work in any one of the sections of the project, or upon the entire work, the plans and specifications will be forwarded. No plans or specifications will be furnished sub-bidders or others not in a position to submit a bid on all of the work comprised in at least one section. The Department will be able to allow only about 15 days for the preparation of estimates. At the time plans and specifications are forwarded to bidders the date for the opening of bids will be stated, and this date will not be extended. O. WENDEROTH, Supervising Architect.

Bids received until Feb. 2, 1915.

Southerly Portion of Sec. 18—Main Sewer

PASSAIC VALLEY SEWERAGE COMMISSIONERS.

Paterson, N. J.

Notice is hereby given that the Passaic Valley Sewerage Commissioners have designated Tuesday, the second day of February, nineteen hundred and fifteen, at two o'clock in the afternoon, as the time when they will meet at their usual place of meeting, Essex Building, Clinton Street, Newark, New Jersey, to receive proposals, in writing, for the construction of the SOUTHERLY PORTION OF SECTION 18 of the MAIN INTERCEPTING SEWER, in the City of Paterson, in the County of Passaic, in New Jersey.

Particulars that may enable Contractors to judge of the character of the work are given below:

PROPOSALS WILL BE RECEIVED FOR THE CONSTRUCTION OF THE SOUTHERLY PORTION OF SECTION 18, IN PATERSON, ALONG ALTERNATE ROUTES, WHICH FOR IDENTIFICATION HAVE BEEN STYLED, AS FOLLOWS: (1) RIVER BANK ROUTE; (2) TUNNEL ROUTE.

All bids will be compared on the basis of the Engineer's Estimate of Quantities of the work to be done, as follows:

ESTIMATE OF QUANTITIES.

(1). RIVER BANK ROUTE:

Item 1.—Earth Excavation and Refilling, in trench, for 65-inch concrete sewer	2,308	Linear Feet.
Item 2.—Excavation in earth, rock or earth and rock together, and refilling, in tunnel, for 65-inch concrete sewer	1,040	Linear Feet.
Item 3.—Rock excavation, in trench	100	Cubic Yards.
Item 4.—Concrete Masonry, with Portland cement mortar, in place, in trench	2,000	Cubic Yards.
Item 5.—Concrete Masonry, with Portland cement mortar, in place, in tunnel	1,200	Cubic Yards.
Item 6.—Brick Masonry, in manholes and elsewhere, laid with Portland cement mortar, including all appurtenant work	100	Cubic Yards.
Item 7.—Steel for concrete reinforcement, in place	1,000	Pounds.
Item 8.—Rip rap, in place	2,000	Long Tons.
Item 9.—Special steel and timber sheeting and shoring between Sta. 17+25 and Sta. 18+05, including all support and protection of N. Y. S. & W. R.R. bridge, etc.		Lump Sum.

(2) TUNNEL ROUTE:

Item 1.—Earth excavation and refilling, in trench, for 65-inch concrete sewer	695	Linear Feet.
Item 2.—Excavation in earth, rock, or earth and rock together and refilling, in tunnel, for 65-inch concrete sewer	2,700	Linear Feet.
Item 3.—Rock excavation, in trench	100	Cubic Yards.
Item 4.—Concrete Masonry, with Portland cement mortar, in place, in trench	600	Cubic Yards.
Item 5.—Concrete Masonry, with Portland cement mortar, in place, in tunnel	3,100	Cubic Yards.
Item 6.—Brick Masonry, in manholes and elsewhere, laid with Portland cement mortar, including all appurtenant work	100	Cubic Yards.
Item 7.—Steel for concrete reinforcement	2,000	Pounds.

Drawings, form of contract and specifications, and blank form for proposals may be obtained at the Commissioners' office from William M. Brown, Chief Engineer.

The Commissioners reserve the right to reject any or all bids.

PASSAIC VALLEY SEWERAGE COMMISSIONERS.
JOHN S. GIBSON, Clerk.
January 5, 1915.

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OFFICE, COMMISSIONERS, District of Columbia, Washington, January 14, 1915.—Sealed proposals will be received at the office of the Secretary of the Board of Commissioners, Room 509, District Building, until 2 o'clock P.M., on Thursday, February 11th, 1915, for reconstructing wharves at municipal fish wharf and market, located on Water street southwest between 11th and 12th streets. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427, District Building, Washington, D. C. A deposit of five dollars ($5.00) for plans will be required. O. P. NEWMAN, F. L. SIDDONS, C. W. KUTZ, Commissioners, D. C.

Bids received until Feb. 2, 1915.

Alterations to Electric Plant

Bath, N. Y.

Sealed proposals for alterations to Electric Plant at the New York State Soldiers & Sailors Home, Bath, N. Y., will be received by Hon. Joseph A. Goulden, President, Board of Trustees, New York State Soldiers & Sailors Home, Bath, N. Y., until February 2, 1915, at eleven o'clock A.M. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of 5% of the amount of bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification No. 2063. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Soldiers & Sailors Home, Bath, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of Ten Dollars, made payable to the State of New York, which check will be returned when plans and specifications are returned in good condition to Lewis F. Pilcher, State Architect.

WILLIAM H. NICHOLS, Secretary.

Dated Bath, N. Y., January 6, 1915.

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Bids received until Jan. 29, 1915.

Open Well

Bedford Hills, N. Y.

Sealed proposals for New Large Open Well at the New York State Reformatory for Women, Bedford Hills, N. Y., will be received by Hon. James Wood, President of the Board of Managers, New York State Reformatory for Women, Bedford Hills, N. Y., until 2 P.M., January 29, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of 5% of the amount of bid. Contractors to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification No. 2171. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Reformatory for Women, Bedford Hills, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

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Bids received until Feb. 19, 1915.

Pumping Station and Equipment

Quincy, Illinois, January, 1915.

Sealed bids will be received until 2 o'clock P.M., February 19th, 1915, at office of Edmund T. Perkins Engineering Company, First Nat'l. Bk. Bldg., Chicago, for furnishing all materials, machinery and labor for erection and installation of an electric pumping station for the South Quincy Drainage and Levee District, Adams County, Illinois. Pumping Station requires construction of Pump House, Substation, Suction and Discharge Bays, laying of about 180 feet of C. I. pipe, hauling and erection of all machinery and wiring for electric machinery and lighting.

Bids for the pumping machinery will be received either as a whole or for each part. The plans call for 2 centrifugal pumps, equipped with chain drive and necessary auxiliaries, a 5 ton traveling crane and 2—200 H.P. motors and auxiliaries and 3—150 K.A. Transformers.

For further information address the Edmund T. Perkins Engineering Company.

The Commissioners reserve the right to reject any or all bids.

WALTER P. MARTINDALE, Secretary.

Bids received until Feb. 4, 1915.

Main Sewer

DEPARTMENT OF PUBLIC WORKS

Office, 216 City Hall

Philadelphia, January 14, 1915.

Sealed Proposals, endorsed "Bids for Main Sewer" and addressed to the undersigned, at Room 216 City Hall, will be received until 12 o'clock, noon, on Thursday, February 4, 1915, for

Schedule A. Gunners Run relief sewer in Indiana street from 3rd street to 12th street. 10 feet diameter brick sewer. Appropriation $200,000.

Plans for the above work will be exhibited in the office of Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon applications to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

Bids will be opened and read in Room 225 City Hall, at noon, on date above mentioned.

No bid will be considered unless accompanied by a certificate from the City Solicitor, that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

M. L. COOKE, Director.

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Bids received until Feb. 20, 1915.

Twenty-Inch Water Main

Middletown, N. Y.

Sealed proposals indorsed "Proposals for laying twenty inch cast iron water main" will be received at the office of the Commissioner of Public Safety at the City Hall, Middletown, N. Y., until 4 P.M. on Saturday, February 20th, 1915, when they will be publicly opened and read.

Proposals shall be accompanied by a certified check payable to the order of the Treasurer of the City of Middletown, N. Y., in the sum of Five Hundred Dollars. Approximate quantities are as follows:

A. Chopping, clearing and draining.
B. 2,510 lin.ft. of trenching and refilling.
C. 1,600 lin.ft. of deep trenching and refilling.
D. 1,890 lin.ft. of grading and embankment over pipe.
E. 6,000 lin.ft. of laying, jointing and caulking 20" pipe.
F. All testing pipes under pressure.

The right is reserved to reject any or all proposals or bids. Bond in the amount of not less than 50% of the contract price will be required for the proper performance of the contract. Plans and specifications can be obtained at the office of the Commissioner of Public Safety, No. 15 City Hall, Middletown, N. Y.

J. C. DEGNAN,
Commissioner of Public Safety.

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Bids received until Jan. 29, 1915.

Street Signs

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, January 29th, 1915, at 12 o'clock, Noon, for furnishing all labor and materials and making complete and delivering, ready to put in place, F.O.B. cars, Wilkes-Barre, Penn., two hundred (200) more or less four-way street signs together with all necessary fittings and four hundred (400) more or less single street signs, such as are fastened to buildings. Each proposal to be accompanied by a certified bank check of the bidder in the sum of $100.00 conditioned upon the fulfillment of the contract by the bidder to whom the same is awarded in accordance to the terms of the contract to be entered into. Bids not accompanied by checks will not be considered. Proposals to be endorsed, "Proposals for Street Signs" and addressed to Fred H. Gates, City Clerk. The City Council reserves the right to reject any or all bids received.

CHARLES N. LOVELAND, Superintendent,
Department of Streets and Public Improvements.

Bids received until Feb. 15, 1915.

Concrete Reservoir

Tampa, Fla.

Sealed proposals will be received, until twelve o'clock noon, February 15th, 1915, at the office of the Tampa Water Works Company, Tampa, Florida, addressed to Chester R. McFarland, General Manager, for a reinforced concrete reservoir about 206 feet long by about 125 feet wide by about 20 feet deep, in accordance with plans and specifications to be furnished by the said Company. A deposit of twenty-five dollars will be required for a copy of the above mentioned plans and specifications. Each bid must be accompanied by a certified check for twenty-five hundred dollars ($2,500), on a National Bank of Tampa, Fla., or Philadelphia, Pa., and made payable to the order of the Tampa Water Works Co. The successful bidder will be required to file with the Tampa Water Works Co., to insure the faithful performance of the contract, a surety bond acceptable to the Water Works Co. for fifty per cent. of the contract price. The Tampa Water Works Co. reserves the right to reject any or all bids.

Bids received until Feb. 9, 1915.

Sedimentation Basin

Philadelphia, Pa.

Bids will be received at Room 216 City Hall, Philadelphia, and opened February 9, 1915, at noon, in Room 225 City Hall, Philadelphia, for a Sedimentation Basin at Torresdale filters. Bidders will be required to file a bond for $500, and an additional surety company guarantee with bid. Plans and specifications can be had at Room 701 City Hall. A deposit of $10.00 is required for plans and specifications.

Bids received until Feb. 11, 1915.

Sewer and Paving Work

Cambridge, Ohio.

Sealed Bids will be received by the undersigned until 12 o'clock noon Feb. 11, 1915, for the construction of Sewer and Street Paving (Brick) Work. Estimated amount of work approx. $47,000.00. Specifications and Blanks on request accompanied by 20 cents to cover postage and mailing.

J. B. CLARK,
Director of Public Service.

U. S. ENGINEER OFFICE, 305 Southern Building, Washington, D. C., Jan. 18, 1915.—Sealed proposals for substitution of through span for deck span in the Pennsylvania Avenue Bridge across Anacostia River, Washington, D. C., will be received at this office until Feb. 17, 1915, and then publicly opened. Information on application. H. C. NEWCOMER, Lt. Col., Engrs.

U. S. ENGR. OFFICE, Boston, Mass., Jan. 18, 1915.—Sealed proposals for dredging in Chelsea Creek, Boston Harbor, Mass., will be received here until 12 M., Feb. 18, 1915, and then publicly opened. Information on application. W. E. CRAIGHILL, Lieut. Col., Engrs.

Bids received until Jan. 30, 1915.

Laundry Building, Power House, etc.

Letchworth Village, Thiells, N. Y.

Sealed proposals for Laundry Building, Construction, Heating, Plumbing, Electric Work and Laundry Machinery; for the Power House Construction, Heating Plant and Underground Piping, Plumbing and Drainage and Electric Work at the Letchworth Village, Thiells, N. Y., will be received by the Hon. Frank A. Vanderlip, President, Board of Managers, Letchworth Village, 55 Wall Street, Room 215, New York City, until 11 A.M. on Saturday, January 30, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of 5% of the amount of bid for Construction, Heating, Plumbing and Electric Work of the Laundry Building, in the sum of $450 for Laundry Machinery, in the sum of $1300 for the Construction of Power House, in the sum of 5% of the amount of bid of Heating Plant, Underground Piping, in the sum of $60 for Plumbing and Drainage, in the sum of $25 for the Electric Work. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specification Nos. 1838, 2109, 2110, 2111, 2139, 2172, 2168, 2186, 2169 and 2170. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at Letchworth Village, Thiells, N. Y.; at the New York office of the Department of Architecture, Rooom 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice and upon the deposit of a certified check in the sum of $10.00, made payable to the State of New York, for each division of the work, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

U. S. ENGINEER OFFICE, Cincinnati, O., Dec. 26, 1914.—Sealed proposals for constructing Lock and Dam No. 53, Ohio River, near Maysville, Ky., will be received at this office until 2 p.m. (Central Time), January 26, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., January 12, 1915.—Sealed proposals for dredging in Harlem River, N. Y., will be received at this office until 12 M., February 11, 1915, and then publicly opened. Information on application. W. M. BLACK, Col. Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., December 30, 1914.—Sealed proposals for furnishing and erecting steel lock gates for Dam No. 15, Ohio River, will be received at this office until 11 a.m. (Eastern time), January 30, 1915, and then publicly opened. Information on application. T. H. JACKSON, Major, Engrs.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale,** 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similar literature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 20 years' experience financial, executive, selling and advertising work, open for engagement. P. W. 674, Eng. News.

MECHANICAL ENGINEER, 34, technical school and 12 years' broad experience, desires position, in or near New York preferred. P. W. 730, Eng. News.

Civil Engineers

ENGINEER, 14 years' experience; surveys on railroad location and construction, irrigation, drainage, United States Geological, subdivisions, flood prevention and sewers. Flitman, 7 West Harrison, Danville, Ill.

CIVIL ENGINEER, 26, technical graduate, 5 years' experience in railroad maintenance and municipal engineering and construction. Good references. P. W. 686, Eng. News, Chicago.

GRADUATE CIVIL ENGINEER; 6 years' experience, structural drafting railroad work and factory construction. P. W. 723, Eng. News.

CIVIL ENGINEER; technical graduate with business experience; 11 years' engineering experience in general and coal mine surveying, railroad construction, structural detailing and special track design. Would make an able assistant to a consulting engineer. P. W. 691, Eng. News.

CIVIL ENGINEER; graduate, 12 years' practical experience with consulting engineers and utility companies; water works and other utilities; preliminary investigations, design, construction, appraisals. References. P. W. 726, Eng. News.

CIVIL ENGINEER; graduate, nine years' experience in building construction, designing, estimating and superintending steel and reinforced concrete work desires connection with contractor. P. W. 728, Eng. News.

CIVIL ENGINEER, four years' experience structural steel and reinforced concrete; position with city or county engineer desired; experience desired rather than large salary. P. W. 714, Eng. News, Chicago.

CIVIL ENGINEER, 12 years' experience on large electric-power houses, reservoirs, foundation and railroad construction; moderate salary. P. W. 715, Eng. News, Chicago.

CIVIL ENGINEER, 24, university graduate, with two years' varied building construction experience, will accept anything reasonable; efficient; well recommended. P. W. 764, Eng. News.

CIVIL ENGINEER! good technical education; six years' experience in field, drafting and design, timber, steel and concrete structures (specializing in reinforced concrete); tracks, yards and earthwork; on heavy railroad construction and Panama Canal. P. W. 766, Eng. News.

1913 GRADUATE wants job in office or field where he can get experience. One year in bridge office; six months in field on reinforced concrete. Go anywhere. P. W. 763, Eng. News.

GRADUATE CIVIL ENGINEER, four years' of varied experience, in office and field also in the tropics desires position in any capacity irrespective of salary and location. Can handle men. P. W. 753, Eng. News.

Bridge and Structural

CHIEF DRAFTSMAN, charge 60 men, desires change; age 35; strong personal force; proved executive ability; 14 years' comprehensive experience. P. W. 520, Eng. News.

GRADUATE ENGINEER; designer bridge and structural work, reinforced concrete, railway and transmission line structures; general contracting and building. Experience in office and field. Open for engagement. P. W. 683, Eng. News.

STRUCTURAL ENGINEER; age. 33; university C. E.; eight years' experience designing steel and reinforced concrete structures. P. W. 750, Eng. News.

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 751, Eng. News.

STRUCTURAL ENGINEER; Quebec bridge experience; can design detail, check or take charge of work. P. W. 757, Eng. News.

STRUCTURAL ENGINEER; technical graduate; good all around steel man; also thorough knowledge of reinforced concrete. P. W. 758, Eng. News.

STRUCTURAL STEEL DRAFTSMAN; thoroughly experienced in designing detailing and checking; excellent reference; wishes position in New York or vicinity. P. W. 759, Eng. News.

STRUCTURAL ENGINEER; designer, detailer and checker; five years' good experience; technical graduate. P. W. 760, Eng. News.

BRIDGE AND STRUCTURAL ENGINEER; responsible experience with large bridge company in Canada. P. W. 761, Eng. News.

Surveyors

INSTRUMENTMAN, topographer, map draftsman; thorough experience, own instruments; first class. P. W. 720, Eng. News, Chicago.

FIELDMAN, computator, accurate draftsman, fair letterer, graduate engineer, 14 years' steady experience in precise instrument work; large tracts and farm surveys, stadia, triangulation and general field and office work; one year municipal; would like to get on municipal or general engineering work, but will accept any position for which I am qualified with reliable firm having future prospects; salary reasonable; good reference; 35 years old. P. W. 721, Eng. News.

RODMAN or CONCRETE INSPECTOR—Age 22; married, slight experience on civil and mining corps. Three years on building construction. Now employed. P. W. 746, Eng. News.

INSTRUMENT MAN, age 26, six years' experience in field, office and construction work. Position in the East preferred. P. W. 748, Eng. News.

Draftsmen

FIRST CLASS structural checker and squadman, twelve years' experience; bridges, buildings, industrial plants, with steel mills and construction companies. Good executive, first class reference. Available, February first or before. P. W. 738, Eng. News.

EXPERT DRAFTSMAN and designer, steel work and machinery 15 years, local position wanted. P. W. 754, Eng. News.

DRAFTSMAN, 5 years' experience, structural, detailing, designing, checking, technical; steady or temporary. P. W. 762, Eng. News.

Superintendents, Etc.

SUPERINTENDENT of building construction of broad experience, available January 1. References. Anywhere. P. W. 646, Eng. News.

SALES ENGINEER, college graduate, seven years' engineering experience, mechanical and structural steel, wants to get into the selling end on salary or to take agency. P. W. 710, Eng. News, Chicago.

AS CONSTRUCTION FOREMAN or general foreman, Latin-American experience; six years conversant Spanish, Portuguese, English; best references; go anywhere; age 26. P. W. 722, Eng. News.

SALES ENGINEER; nine years' experience, desires Cleveland connection with building material company. P. W. 727, Eng. News.

CONTRACTORS SUPERINTENDENT; graduate engineer; 4½ years' experience in reinforced concrete and general construction; Baltimore or Philadelphia interview. P. W. 713, Eng. News.

EXPERIENCED TIMEKEEPER and office man desires position at once. Will go anywhere. Best of references. Box 163, Richmond, Va.

PRODUCTION AND EFFICIENCY ENGINEER or superintendent. Engineer with good record in organizing, systematizing, and cost reduction in design and manufacture desires position where these abilities may be applied. High technical training and first class designer. Experienced in all departments. Location immaterial. P. W. 747, Eng. News.

CONTRACTORS SUPERINTENDENT; graduate engineer; six years' experience, dredging, land reclamation, river and harbor improvements, canal and railroad construction. References. P. W. 745, Eng. News.

SECRETARY—Office man, stenographer, secretary, with good command of Spanish, wants position with company operating in Central or South America. Six years' experience on construction, railroad, and steel work. P. W. 744, Eng. News.

WANT TO FINANCE my assets consisting of good general knowledge of building construction, ability to write crisp, snappy English, personality and ambition. Canadian, 31, technical graduate. P. W. 741, Eng. News.

COMMERCIAL PHOTOGRAPHER, with technical education, experienced on construction work, machinery, etc., desires position as official photographer in central states. Box 202, 1421 Arch St., Philadelphia, Penn.

CONSULTING ENGINEER and SALESMAN; 5 years' traveling experience designing, introducing, selling and contracting for construction materials, among state, city and private architects, engieers and contractors throughout eastern half of the United States; open for engagement. P. W. 768, Eng. News.

FIRST CLASS CARPENTER or concrete boss desires change. First class references if required. Locality immaterial. P. W. 752, Eng. News.

GRADUATE ENGINEER, 26, experienced in street and highway work, also structural detailing and design. P. W. 765, Eng. News.

ESTIMATOR, general building construction, graduate civil engineer, 10 years' experience, reliable, hustler, wants change, New York location. P. W. 769, Eng. News.

POSITIONS OPEN

WANTED, salesman to handle high grade building specialty. Acquaintance with architects and contractors very essential. State experience and age. P. 742, Eng. News, Chicago.

MAN to take charge of party in land subdivision; must be capable of making all computations and finished map; one who can furnish own surveying outfit preferred; state age, experience, references and salary expected. P. 749, Eng. News.

ONE FIRST CLASS, all around building superintendent. Must have experience in handling large office building work as well as general industrial work. Nothing but strictly sober men of large experience need apply. P. 755, Eng. News, Chicago.

YOUNG MAN of building experience and good education as assistant building superintendent. Must have had actual building experience and be strictly sober. P. 756, Eng. News, Chicago.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

SUPERINTENDENT for malleable iron plant, also general foreman for large motor shop, building motors and generators. Only high grade men need apply. The Toledo Engineering Agency, Toledo, Ohio.

ENGINEER of established reputation on Pacific Coast desires partner with capital to form corporation for general engineering and contracting; previous experience or technical knowledge and ability as a business getter required; New York City interview. B. O. 742, Eng. News.

FOR SALE

NINE BOUND VOLUMES OF "ENGINEERING NEWS," in first-class condition, from July, 1901, to Dec., 1905, Vols. 46 to 54, inclusive. John W. Ash, 528 Temple Court Bldg., Chattanooga, Tenn.

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N

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DALLETT & CO., Harrison Bldg., Phila., Pa.

DOUGLAS, Geo. B., 29 Broadway, New York.

GIVIN Co., Herbert, 30 Church St., N. Y. City.

GRIMSHAW CO., Wm. B., Drexel Bldg., Phila., Pa.

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HOISTING Engine Sales Co., 120 West 32d St., New York.

HYATT, C. W., 93 E. Oneida St., Baldwinsville, N. Y.

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NEW RIVER Co., The, Macdonald, W. Va.

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2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

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[Wanted]

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